

Below is a list of typographical and other errors in the pre-publication version of the book

A first course in topological field theory

by Jürgen Fuchs, Christoph Schweigert and Lukas Woike,

that, with the permission of the publisher, is available on our web pages.

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(Besides the listed errors, there are a few further instances – in particular, concerning the layout, such as page numbering and page breaks – in which the pre-publication version differs from the published one.)

- p. 16

 In the 2nd line after Eq. (1.3), insert “and circles” after “intervals”.
- p. 20

 In the 1st line, add a colon “:” after “shape”.
- p. 25

 After the 4th line of Exercise 1.23, insert
”We call $\mathcal{C}^\times$ the *maximal subgroupoid* of $\mathcal{C}$.”
- p. 25

 In Example 1.24(1) insert ”or, synonymously, $\mathcal{BG}$,” before ”for such a groupoid”.
- p. 25

 In the last line, replace “ xe ” by “ $x.e$ ”.
- p. 27

 In the last line (Exercise 1.34) remove “ G ” after “finite group”.
- p. 28

 In the 6th line after Eq. (1.35),
replace “ id_s ” by the neutral element “ e ” of the group G .
- p. 32

 The text “(Here ... respectively.)”, which is presently part of item (3),
must appear already at the end of item (2).
- p. 33

 In the second paragraph of Exercise 1.46, replace “an” by “a”.
- p. 38

 In Remark 1.61, remove “but” after “we should”.
- p. 38

 In Exercise 1.65, replace “Exercise 1.24(2)” by “Example 1.24(2)”.
- p. 38

 In the last line, insert “of” between “equivalence” and “categories”.
- p. 39

 In the second line before Definition 1.66, replace “tht” by “that”.
- p. 41

 In the first line of formula (1.71), remove the last round bracket “)”.
- p. 44

 In the third line of Definition 1.89(1), insert a comma after “ $i \in \mathcal{C}$ ”.
- p. 55

 At the end of the second line of the displayed equation before Exercise 1.134,
remove “ a ”.

- p. 59 In the 2nd line before Section 2.1, replace “desperate” by “discouraged”.
- p. 63 In the second paragraph of Remark 2.7, replace “an” by “a”.
- p. 69 1st line before the first picture: Insert “form” after “combined to”.
- p. 73 At the end of the 8th line of Example 2.25, insert “for” between “by using” and “the”.
- p. 78 In the 9th line of Remark 2.39, replace the parenthesis by a comma.
- p. 86 After the first displayed equation, insert “(Here $f^\vee$ denotes the right dual of a morphism f , see below.)”.
- p. 87 In the first line of Remark 2.61, replace “vertices and edges” by “edges and vertices”.
- p. 90 In the 2nd line of Exercise 2.77(3), replace “ $\Delta \circ \tau_{H,H}$ ” by “ $\tau_{H,H} \circ \Delta$ ”.
- p. 93 In the last line of Remark 2.86, replace “ $c_{X^\vee, H}^{-1}$ ” by “ $c_{\vee X, H}^{-1}$ ”.
- p. 97 In the first line of Remark 2.96(4). replace “Example 2.15(3)” by “Example 2.15(4)”.
- p. 99 The last sentence “In particular ...” of Proposition 2.102 is redundant and should therefore be removed.
- p.100 In the second displayed equation, replace “ $\xrightarrow{\text{Aut}} (Z(\Sigma))$ ” by “ $\longrightarrow \text{Aut}(Z(\Sigma))$ ”.
- p.103 In item (2), replace “id” by “ id_{V^*} ”.
- p.107 In the next-to-last line of Section 3.2, replace “cohomology rings” by “cohomology ring”.
- p.108 Before Definition 3.10 insert, as running text, “If the pairing κ is symmetric, then A is called a *symmetric Frobenius algebra*.”
- p.114 In the last line of Exercise 4.19, replace “0” by “ $\{e\}$ ”.
- p.114 In the last line of Remark 4.22, replace “natural isomorphism” by “distinguished isomorphism”.
- p.116 After “function” at the end of the second line of the proof of Lemma 4.28, insert “(introduced in Remark 4.21)”.
- p.121 In the 1st line, insert “on” after “depends”
- p.124 In Exercise 4.61, replace the displayed diagram by “(4.58)”.
- p.125 In the last line of the proof of Proposition 4.62, replace “ $\Lambda \times_\Omega \Lambda$ ” by “ $\Gamma \times_\Omega \Lambda$ ”.

- p. 126 In Remark 4.65, replace the text
“as provided by the morphisms in the homotopy pullback (4.37).” by
“since they enter crucially when calculating the homotopy pullback after applying
the functor $[-, G\text{-}\mathcal{T}or]$.”
- p. 126 In the 3rd line of the middle displayed equation,
insert “the equality in the line after” before “Eq. (4.23)”.
- p. 132 In Example 5.5(2), replace “all groupoids” by “all essentially small groupoids”.
- p. 132 At the beginning of the 4th line of Exercise 5.8,
insert “of” before “endotransformations”.
- p. 134 In the line above the displayed diagram, replace “such that” by “that is a filler in”,
and in the line after the diagram, remove “commutes”.
- p. 134 In the second line after the displayed diagram, replace “there” by “their”.
- p. 136 In the 7th line from the bottom, replace “bifunctors” by “functors”.
- p. 137 In the 2nd line before Eq. (5.17), insert “in” after “with corners”.
- p. 138 In the 1st line, replace “ $f'_1(s, t)$ ” by “ $f'_1(s)$ ”, and replace “ $g' \circ f_1(s, t)$ ” by “ $g \circ f_1(s)$ ”.
- p. 138 In the second line of Remark 5.19(3), replace the semicolon by a comma.
- p. 142 The last displayed equation must get an equation number: “(5.27)”.
- As a consequence, further numberings in Chapter 5 are shifted by +1,
e.g. Definition 5.27 becomes Definition 5.28.
- p. 145 In the line after the next-to-last displayed equation, remove “which”.
- p. 146 In the picture (5,35), replace “ ι_{inn}^t ” by “ ι_{in}^t ” and “ ι_{inn}^b ” by “ ι_{in}^b ”.
- In the picture (5,36), replace “ ι_{inn}^b ” by “ ι_{in}^b ”.
- p. 148 Remove the period at the end of the last displayed equation.
- p. 149 In the picture (5,39), replace “ ι_{inn}^t ” by “ ι_{in}^t ” and “ ι_{inn}^b ” by “ ι_{in}^b ”.
- p. 150 The displayed commutative diagram must get an equation number: “(5.41)”.
- As a consequence, further numberings in Chapter 5 are shifted by +2,
e.g. Exercise 5.41 becomes Exercise 5.43.
- p. 153 At the beginning of the 1st line after the displayed equation in Remark 5.45,
insert “holds” before “for all”.
- p. 155 In the 1st line of Theorem 5.53, remove one of the two commas after “Prop. 4.8”.

- p. 157 In the second line after the first displayed equation in Example 5.57(1), replace “ $\alpha(g_1, g_2, g_3)$ ” by “ $\omega(g_1, g_2, g_3)$ ”.
- p. 157 In the line after the third displayed equation in Example 5.57(1), replace “Definition 2.89” by “Definition 2.89(2)”.
- p. 157 In the 5th line of the last paragraph of Example 5.57(1), replace “associated” by “associate”.
- p. 158 In the 4th line of Proposition 5.59, replace “ X_q ” by “ X_p ”.
- p. 162 In the 3rd line after the displayed equation, insert “braided equivalent to” before “the Drinfeld center”.
- p. 164 In the 8th line of Subsection 6.3.1, replace the period after “ A and A^{opp} ” by a comma.
- p. 164 In the 3rd line of the next-to-last paragraph, replace “result” by “results”.
- p. 165 In the 5th/6th line of Subsection 6.3.3, remove “three-dimensional” after “(once-)extended”.
- p. 168 In the line before the last displayed equation, replace “ $V(\Sigma, \Delta)$ ” by “ $V(\Sigma, \Delta_2)$ ”.
- p. 170 In the 3rd line, remove “thus” before “to demand”.
- p. 170 In the 4th line from the bottom, remove “been”.
- p. 171 In the 4th line of the 3rd paragraph, after “depend on” replace “ Σ ” by “ Δ ”.